

rotary sample divider with a compact belt conveyor feeder

Rotary sample divider is a kind of automatic reduction equipment, which adopts advanced rotary sampling technology combined with continuous and uniform feeding system to realize high-precision and equal proportion reduction of samples.

Rotary Sample Divider

Rotary sample divider is suitable for all kinds of ores, coal, building materials, chemical particles and other materials in the sampling process, to ensure the representativeness and uniformity of the sampling, in line with a number of industry standards at home and abroad.

Main Features

1. Small belt machine uniform feeding: the equipment is equipped with compact belt conveyor, to ensure that the material is constantly and uniformly transported to the sampling area, effectively avoiding particle size segregation and material clogging.
2. Accurate rotary reduction: through the precision adjustment of the rotary sampling disk, the material is automatically distributed to multiple sample buckets according to the set ratio, and the reduction accuracy strictly meets the relevant quality standards.



3. Solid positioning of the sample bucket: the sample receiving bucket is reasonably designed, firmly positioned, easy to take samples and replace them, reducing the risk of operational errors and sample confusion.

Advantages

1. Continuous and stable material transportation, improve the uniformity of the reduction process, to ensure that each sample has a good representation.
2. High degree of automation, easy to operate, reduce the impact of human factors, reduce labor intensity.
3. Compact and durable structure, made of high quality materials, suitable for a variety of complex working environment.
4. Easy maintenance design, quick disassembly and cleaning, reduce cross-contamination, to protect the purity of the sample.

Working Principle

The Rotary Sizer uniformly conveys the granular material to the rotating sample plate by means of a small belt conveyor. The disk rotates slowly under the drive of the motor, and the materials are evenly distributed along the disk surface, and enter into several aliquots of sample barrels in turn. The speed of the rotating disk is synchronized with the feeding rate of the belt to ensure the stability of the reduction ratio. This design effectively avoids particle separation and segregation in the process of material transportation and sampling, and ensures the uniformity and representativeness of the samples. The whole process is controlled automatically, which reduces human intervention and improves the efficiency and quality of sample preparation.

Application Fields

1. Coal industry: Sample reduction of raw coal and manufactured coal to meet the demand of combustion performance and chemical analysis.
2. Metallurgical minerals: fine reduction of iron ore, manganese ore, bauxite and other ore samples.
3. Building materials industry: sample preparation for cement, slag, limestone and other raw materials.
4. Chemical industry: homogeneous fractionation of powder and granular chemicals.
5. Scientific research institutes and third-party testing organizations: to provide standardized sample reduction solutions to ensure the accuracy and consistency of data.

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Model	SD600D
Particle size for reduction	≤6 to 25mm
Reduction ratio	1/8 to 1/2(adjustable)
Mixed silo capacity	60L

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Model	SD600D
Volume of sample bucket	10L
Number of sample buckets	8
Production rate	800kg per hour
Motor power	0.37kw+0.2kw
Power supply	Three phase 380Vac
Weight	150kg
Dimensions	1600x800x1600mm